



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
DESA/HWSB/HWSS
2890, Woodbridge Avenue, Edison, NJ 08837

EXECUTIVE NARRATIVE

Case No. 17-0014

Site: Mackenzie Chemical Works
Central Islip, Suffolk County, NY

SDG No. BE002

Laboratory: Test America Burlington

QAPP: Weston Solutions RST 3 September 17, 2017

DCN #: RST3-04-D-0049

Contractor: Weston Solutions RST 3

Number of Samples: 8 TO-15 (8 air)

Sample Type: TO-15

Sampling date: 09 / 08 / 17

SUMMARY:

Critical: Results have an unacceptable level of uncertainty and should not be used for making decisions.
Data have been qualified "R" rejected.

Major: A level of uncertainty exists that may not meet the data quality objectives for the project. A bias is likely to be present in the results. Data have been qualified "J" estimated.

Minor: The level of uncertainty is acceptable. No significant bias in the data was observed.

Critical Findings: None

Major Findings: None

Minor Findings: None

COMMENT: None

Validator's Signature:

Name: Russell Arnone
Affiliation: EPA R2/DESA/HWSB/HWSS **Date:** 10 / 16 / 2017

Reviewed & Approved by: **Date:**
Affiliation: EPA R2/DESA/HWSB/HWSS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
DESA/HWSB/HWSS
2890, Woodbridge Avenue, Edison, NJ 08837

Data Qualifier Definitions (National Functional Guidelines)			
Qualifier Symbol	Explanation		
	INORGANICS	ORGANICS	CHLORINATED DIOXIN/FURAN
U	The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.	The analyte was analyzed for but not detected. The value preceding the "U" may represent the adjusted Contract Required Quantitation Limit (see DLM02.X, Exhibit D, Section 1.2 and Table 2), or the sample specific estimated detection limit (EDL, see Method 8290A, Section 11.9.5).
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to an issue with the quality of the data generated because certain QC criteria were not met, or the concentration of the analyte was below the adjusted CRQL).
J +	The result is an estimated quantity, but the result may be biased high.		
J -	The result is an estimated quantity, but the result may be biased low.		
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.	The analyte was not detected (see definition of "U" flag, above). The reported value should be considered approximate.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
N		<i>The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".</i>	
NJ		The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	
C		This qualifier applies to pesticide and Aroclor results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).	
X		This qualifier applies to pesticide and Aroclor results when GC/MS analysis was attempted but was unsuccessful.	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
DESA/HWSB/HWSS
2890, Woodbridge Avenue, Edison, NJ 08837

DATA ASSESSMENT

Data Validation report for Organic Analysis pursuant to the standard operating procedure (SOP) HW-31/VOA (Revision 5) entitled "Volatile Organic Analysis of Ambient Air in Canister by Method TO-15"

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problems were found for this qualification.

2. Leak Test Evaluation:

All canisters are leak tested prior to each sampling use. The initial pressure (approximately 206 kPa or 30 psi) is measured, the canister valve is closed, and the final pressure is checked after 24 hours. If acceptable, the pressure should not vary more than 13.8 kPa (2 psig) over the 24-hour period.

No problems were found for this qualification.

3. Canister Certification:

Canister certification involves two procedures: Blank Analysis and Blank Spike Analysis. The canister is "Certified Clean" if target analytes are < 0.2 ppbv. For the spiked canister, the acceptable % difference for any target compound at a nominal 10-ppbv concentration in humidified zero air is <30%.

No problems were found for this qualification.

4. Laboratory Control/Lab Control Duplicate Recovery (LCS/LCSD):

The LCS/LCS Duplicate data is generated to determine the long-term precision and accuracy of the analytical method. The LCS/LCS Duplicate may be used in conjunction with other QC criteria for additional qualification of data. The LCS is analyzed once per 24-hour analytical sequence and concurrently with the samples in the SDG. Percent recovery (%R) is expected in 70-130 % range. Relative percent difference (RPD) limit between LCS and LCSD is expected to be 25.

No problems were found for this qualification.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
DESA/HWSB/HWSS
2890, Woodbridge Avenue, Edison, NJ 08837

5. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples throughout field operations. If the concentration of the analyte is less than or equal five times (5X) the method blank concentration, the analytes are qualified as non-detects, "U".

The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:

No problems were found for this qualification.

B) Trip / Field or rinse blank contamination:

No problems were found for this qualification.

C) TIC's "R" rejected:

Not applicable.

6. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems were found for this qualification.

7. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance. Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $\pm 30\%$ for all Target analytes. %D must be $\pm 30\%$ for all Target analytes. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R".

No problems were found for this qualification.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
DESA/HWSB/HWSS
2890, Woodbridge Avenue, Edison, NJ 08837

8. INTERNAL STANDARDS PERFORMANCE:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than 40% from the most recent valid calibration standard area. The retention time of the internal standard must not vary more than □ 20 seconds from the latest daily (24-hour) calibration standard. If the area count is greater the 40% range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated "J", and all non-detects are not flagged. If the area count is less than the 40% range of the associated standard, all of the positive results for compounds quantitated with that IS are qualified as estimated "J", and all non-detects are qualified as unusable "UJ". If the area count is < 25%, flag all non-detects as unusable "R".

If an internal standard retention time varies by more than 20 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction.

No problems were found for this qualification.

9. COMPOUND IDENTIFICATION:

Compounds on the target analyte list (TCL) are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within 0.06 RRT units of the standard compound and have ion spectra which have a ratio of the primary and secondary m/z intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems were found for this qualification.

10. CONTRACT PROBLEMS NON-COMPLIANCE:

No problems were noted.

11. FIELD DOCUMENTATION:

No problems were noted.

12. OTHER CONSIDERATIONS:

No problems were noted

13. DILUTIONS, RE-EXTRactions & REANALYSIS:

Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable samples and analytes.

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE002

Date Collected: 09/08/17 11:24

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-1

Matrix: Air

Validated

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.80	U	0.80	0.072	ppb v/v			09/13/17 22:41	4
1,1-Dichloroethene	0.80	U	0.80	0.14	ppb v/v			09/13/17 22:41	4
Dichlorodifluoromethane	0.64	J	2.0	0.19	ppb v/v			09/13/17 22:41	4
trans-1,2-Dichloroethene	0.80	U	0.80	0.20	ppb v/v			09/13/17 22:41	4
1,1-Dichloroethane	0.80	U	0.80	0.068	ppb v/v			09/13/17 22:41	4
Freon-114	0.80	U	0.80	0.16	ppb v/v			09/13/17 22:41	4
Chloromethane	2.3		2.0	0.64	ppb v/v			09/13/17 22:41	4
cis-1,2-Dichloroethene	0.80	U	0.80	0.12	ppb v/v			09/13/17 22:41	4
1,1,1-Trichloroethane	0.80	U	0.80	0.10	ppb v/v			09/13/17 22:41	4
1,2-Dichloroethane	0.80	U	0.80	0.14	ppb v/v			09/13/17 22:41	4
Bromomethane	0.80	U	0.80	0.14	ppb v/v			09/13/17 22:41	4
Chloroethane	2.0	U	2.0	0.52	ppb v/v			09/13/17 22:41	4
Trichloroethene	0.043	J	0.80	0.036	ppb v/v			09/13/17 22:41	4
1,1,2-Trichloroethane	0.80	U	0.80	0.068	ppb v/v			09/13/17 22:41	4
Trichlorofluoromethane	0.58	J	0.80	0.12	ppb v/v			09/13/17 22:41	4
1,1,2,2-Tetrachloroethane	0.80	U	0.80	0.10	ppb v/v			09/13/17 22:41	4
Freon 113	0.80	U	0.80	0.11	ppb v/v			09/13/17 22:41	4
Tetrachloroethene	0.39	J	0.80	0.039	ppb v/v			09/13/17 22:41	4
Acetone	120		20	5.2	ppb v/v			09/13/17 22:41	4
Carbon disulfide	5.9		2.0	0.11	ppb v/v			09/13/17 22:41	4
Allyl chloride	2.0	U	2.0	0.25	ppb v/v			09/13/17 22:41	4
Dichloromethane	2.0	U	2.0	0.27	ppb v/v			09/13/17 22:41	4
Methyl tert-butyl ether	0.80	U	0.80	0.16	ppb v/v			09/13/17 22:41	4
Vinyl acetate	20	U	20	8.0	ppb v/v			09/13/17 22:41	4
2-Butanone (MEK)	16		2.0	0.44	ppb v/v			09/13/17 22:41	4
Chloroform	0.25	J	0.80	0.10	ppb v/v			09/13/17 22:41	4
Carbon tetrachloride	0.80	U	0.80	0.044	ppb v/v			09/13/17 22:41	4
Benzene	0.68	J	0.80	0.11	ppb v/v			09/13/17 22:41	4
n-Heptane	0.27	J	0.80	0.27	ppb v/v			09/13/17 22:41	4
Methyl methacrylate	2.0	U	2.0	0.44	ppb v/v			09/13/17 22:41	4
1,2-Dichloropropane	0.80	U	0.80	0.14	ppb v/v			09/13/17 22:41	4
1,4-Dioxane	20	U	20	3.0	ppb v/v			09/13/17 22:41	4
Bromodichloromethane	0.80	U	0.80	0.24	ppb v/v			09/13/17 22:41	4
cis-1,3-Dichloropropene	0.80	U	0.80	0.14	ppb v/v			09/13/17 22:41	4
Methyl isobutyl ketone	0.48	J	2.0	0.26	ppb v/v			09/13/17 22:41	4
Toluene	0.70	J	0.80	0.14	ppb v/v			09/13/17 22:41	4
trans-1,3-Dichloropropene	0.80	U	0.80	0.15	ppb v/v			09/13/17 22:41	4
Methyl Butyl Ketone (2-Hexanone)	0.86	J	2.0	0.34	ppb v/v			09/13/17 22:41	4
Dibromochloromethane	0.80	U	0.80	0.068	ppb v/v			09/13/17 22:41	4
1,2-Dibromoethane	0.80	U	0.80	0.092	ppb v/v			09/13/17 22:41	4
Chlorobenzene	0.80	U	0.80	0.10	ppb v/v			09/13/17 22:41	4
Ethylbenzene	0.80	U	0.80	0.14	ppb v/v			09/13/17 22:41	4
m,p-Xylene	0.60	J	2.0	0.31	ppb v/v			09/13/17 22:41	4
Xylene, o-	0.23	J	0.80	0.16	ppb v/v			09/13/17 22:41	4
Styrene	0.80	U	0.80	0.14	ppb v/v			09/13/17 22:41	4
Bromoform	0.80	U	0.80	0.14	ppb v/v			09/13/17 22:41	4
4-Ethyltoluene	0.80	U	0.80	0.16	ppb v/v			09/13/17 22:41	4
1,3,5-Trimethylbenzene	0.80	U	0.80	0.16	ppb v/v			09/13/17 22:41	4

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE002

Date Collected: 09/08/17 11:24

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.80	U	0.80	0.23	ppb v/v			09/13/17 22:41	4
1,3-Dichlorobenzene	0.80	U	0.80	0.20	ppb v/v			09/13/17 22:41	4
1,4-Dichlorobenzene	0.80	U	0.80	0.25	ppb v/v			09/13/17 22:41	4
Benzyl chloride	0.80	U	0.80	0.27	ppb v/v			09/13/17 22:41	4
1,2-Dichlorobenzene	0.18	J	0.80	0.18	ppb v/v			09/13/17 22:41	4
1,2,4-Trichlorobenzene	2.0	U	2.0	0.76	ppb v/v			09/13/17 22:41	4
Hexachlorobutadiene	0.80	U	0.80	0.26	ppb v/v			09/13/17 22:41	4
Naphthalene	0.41	J	2.0	0.40	ppb v/v			09/13/17 22:41	4
1,2,3-Trichloropropane	0.90	J	2.0	0.35	ppb v/v			09/13/17 22:41	4
Alpha Methyl Styrene	0.80	U	0.80	0.25	ppb v/v			09/13/17 22:41	4
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	0.18	ug/m ³			09/13/17 22:41	4
1,1-Dichloroethene	3.2	U	3.2	0.56	ug/m ³			09/13/17 22:41	4
Dichlorodifluoromethane	3.1	J	9.9	0.93	ug/m ³			09/13/17 22:41	4
trans-1,2-Dichloroethene	3.2	U	3.2	0.79	ug/m ³			09/13/17 22:41	4
1,1-Dichloroethane	3.2	U	3.2	0.28	ug/m ³			09/13/17 22:41	4
Freon-114	5.6	U	5.6	1.1	ug/m ³			09/13/17 22:41	4
Chloromethane	4.7		4.1	1.3	ug/m ³			09/13/17 22:41	4
cis-1,2-Dichloroethene	3.2	U	3.2	0.46	ug/m ³			09/13/17 22:41	4
1,1,1-Trichloroethane	4.4	U	4.4	0.57	ug/m ³			09/13/17 22:41	4
1,2-Dichloroethane	3.2	U	3.2	0.55	ug/m ³			09/13/17 22:41	4
Bromomethane	3.1	U	3.1	0.56	ug/m ³			09/13/17 22:41	4
Chloroethane	5.3	U	5.3	1.4	ug/m ³			09/13/17 22:41	4
Trichloroethene	0.23	J	4.3	0.20	ug/m ³			09/13/17 22:41	4
1,1,2-Trichloroethane	4.4	U	4.4	0.37	ug/m ³			09/13/17 22:41	4
Trichlorofluoromethane	3.3	J	4.5	0.70	ug/m ³			09/13/17 22:41	4
1,1,2,2-Tetrachloroethane	5.5	U	5.5	0.71	ug/m ³			09/13/17 22:41	4
Freon 113	6.1	U	6.1	0.83	ug/m ³			09/13/17 22:41	4
Tetrachloroethene	2.6	J	5.4	0.27	ug/m ³			09/13/17 22:41	4
Acetone	290		48	12	ug/m ³			09/13/17 22:41	4
Carbon disulfide	18		6.2	0.35	ug/m ³			09/13/17 22:41	4
Allyl chloride	6.3	U	6.3	0.79	ug/m ³			09/13/17 22:41	4
Dichloromethane	6.9	U	6.9	0.94	ug/m ³			09/13/17 22:41	4
Methyl tert-butyl ether	2.9	U	2.9	0.59	ug/m ³			09/13/17 22:41	4
Vinyl acetate	70	U	70	28	ug/m ³			09/13/17 22:41	4
2-Butanone (MEK)	48		5.9	1.3	ug/m ³			09/13/17 22:41	4
Chloroform	1.2	J	3.9	0.49	ug/m ³			09/13/17 22:41	4
Carbon tetrachloride	5.0	U	5.0	0.28	ug/m ³			09/13/17 22:41	4
Benzene	2.2	J	2.6	0.36	ug/m ³			09/13/17 22:41	4
n-Heptane	1.1	J	3.3	1.1	ug/m ³			09/13/17 22:41	4
Methyl methacrylate	8.2	U	8.2	1.8	ug/m ³			09/13/17 22:41	4
1,2-Dichloropropane	3.7	U	3.7	0.65	ug/m ³			09/13/17 22:41	4
1,4-Dioxane	72	U	72	11	ug/m ³			09/13/17 22:41	4
Bromodichloromethane	5.4	U	5.4	1.6	ug/m ³			09/13/17 22:41	4
cis-1,3-Dichloropropene	3.6	U	3.6	0.65	ug/m ³			09/13/17 22:41	4
Methyl isobutyl ketone	2.0	J	8.2	1.1	ug/m ³			09/13/17 22:41	4
Toluene	2.6	J	3.0	0.53	ug/m ³			09/13/17 22:41	4
trans-1,3-Dichloropropene	3.6	U	3.6	0.69	ug/m ³			09/13/17 22:41	4

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE002

Date Collected: 09/08/17 11:24

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	3.5	J	8.2	1.4	ug/m3			09/13/17 22:41	4
Dibromochloromethane	6.8	U	6.8	0.58	ug/m3			09/13/17 22:41	4
1,2-Dibromoethane	6.1	U	6.1	0.71	ug/m3			09/13/17 22:41	4
Chlorobenzene	3.7	U	3.7	0.46	ug/m3			09/13/17 22:41	4
Ethylbenzene	3.5	U	3.5	0.59	ug/m3			09/13/17 22:41	4
m,p-Xylene	2.6	J	8.7	1.3	ug/m3			09/13/17 22:41	4
Xylene, o-	0.98	J	3.5	0.69	ug/m3			09/13/17 22:41	4
Styrene	3.4	U	3.4	0.60	ug/m3			09/13/17 22:41	4
Bromoform	8.3	U	8.3	1.4	ug/m3			09/13/17 22:41	4
4-Ethyltoluene	3.9	U	3.9	0.79	ug/m3			09/13/17 22:41	4
1,3,5-Trimethylbenzene	3.9	U	3.9	0.79	ug/m3			09/13/17 22:41	4
1,2,4-Trimethylbenzene	3.9	U	3.9	1.1	ug/m3			09/13/17 22:41	4
1,3-Dichlorobenzene	4.8	U	4.8	1.2	ug/m3			09/13/17 22:41	4
1,4-Dichlorobenzene	4.8	U	4.8	1.5	ug/m3			09/13/17 22:41	4
Benzyl chloride	4.1	U	4.1	1.4	ug/m3			09/13/17 22:41	4
1,2-Dichlorobenzene	1.1	J	4.8	1.1	ug/m3			09/13/17 22:41	4
1,2,4-Trichlorobenzene	15	U	15	5.6	ug/m3			09/13/17 22:41	4
Hexachlorobutadiene	8.5	U	8.5	2.7	ug/m3			09/13/17 22:41	4
Naphthalene	2.2	J	10	2.1	ug/m3			09/13/17 22:41	4
1,2,3-Trichloropropane	5.5	J	12	2.1	ug/m3			09/13/17 22:41	4
Alpha Methyl Styrene	3.9	U	3.9	1.2	ug/m3			09/13/17 22:41	4

Client Sample ID: BE003

Date Collected: 09/08/17 11:20

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.20	U	0.20	0.018	ppb v/v			09/13/17 23:31	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			09/13/17 23:31	1
Dichlorodifluoromethane	0.58		0.50	0.047	ppb v/v			09/13/17 23:31	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			09/13/17 23:31	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			09/13/17 23:31	1
Freon-114	0.20	U	0.20	0.041	ppb v/v			09/13/17 23:31	1
Chloromethane	1.1		0.50	0.16	ppb v/v			09/13/17 23:31	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			09/13/17 23:31	1
1,1,1-Trichloroethane	0.033	J	0.20	0.026	ppb v/v			09/13/17 23:31	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			09/13/17 23:31	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			09/13/17 23:31	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			09/13/17 23:31	1
Trichloroethene	0.21		0.20	0.0091	ppb v/v			09/13/17 23:31	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			09/13/17 23:31	1
Trichlorofluoromethane	0.24		0.20	0.031	ppb v/v			09/13/17 23:31	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			09/13/17 23:31	1
Freon 113	0.083	J	0.20	0.027	ppb v/v			09/13/17 23:31	1
Tetrachloroethene	0.81		0.20	0.0098	ppb v/v			09/13/17 23:31	1
Acetone	16		5.0	1.3	ppb v/v			09/13/17 23:31	1
Carbon disulfide	0.69		0.50	0.028	ppb v/v			09/13/17 23:31	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE003

Date Collected: 09/08/17 11:20

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl chloride	0.50	U	0.50	0.063	ppb v/v			09/13/17 23:31	1
Dichloromethane	0.15	J	0.50	0.068	ppb v/v			09/13/17 23:31	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			09/13/17 23:31	1
Vinyl acetate	5.0	U	5.0	2.0	ppb v/v			09/13/17 23:31	1
2-Butanone (MEK)	5.8		0.50	0.11	ppb v/v			09/13/17 23:31	1
Chloroform	0.054	J	0.20	0.025	ppb v/v			09/13/17 23:31	1
Carbon tetrachloride	0.073	J	0.20	0.011	ppb v/v			09/13/17 23:31	1
Benzene	3.2		0.20	0.028	ppb v/v			09/13/17 23:31	1
n-Heptane	0.23		0.20	0.068	ppb v/v			09/13/17 23:31	1
Methyl methacrylate	0.50	U	0.50	0.11	ppb v/v			09/13/17 23:31	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			09/13/17 23:31	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			09/13/17 23:31	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			09/13/17 23:31	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			09/13/17 23:31	1
Methyl isobutyl ketone	1.9		0.50	0.065	ppb v/v			09/13/17 23:31	1
Toluene	0.78		0.20	0.035	ppb v/v			09/13/17 23:31	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			09/13/17 23:31	1
Methyl Butyl Ketone (2-Hexanone)	0.11	J	0.50	0.086	ppb v/v			09/13/17 23:31	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			09/13/17 23:31	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			09/13/17 23:31	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			09/13/17 23:31	1
Ethylbenzene	1.4		0.20	0.034	ppb v/v			09/13/17 23:31	1
m,p-Xylene	4.0		0.50	0.077	ppb v/v			09/13/17 23:31	1
Xylene, o-	1.8		0.20	0.040	ppb v/v			09/13/17 23:31	1
Styrene	0.044	J	0.20	0.035	ppb v/v			09/13/17 23:31	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			09/13/17 23:31	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			09/13/17 23:31	1
1,3,5-Trimethylbenzene	0.17	J	0.20	0.040	ppb v/v			09/13/17 23:31	1
1,2,4-Trimethylbenzene	0.26		0.20	0.057	ppb v/v			09/13/17 23:31	1
1,3-Dichlorobenzene	0.79		0.20	0.050	ppb v/v			09/13/17 23:31	1
1,4-Dichlorobenzene	0.59		0.20	0.063	ppb v/v			09/13/17 23:31	1
Benzyl chloride	0.20	U	0.20	0.067	ppb v/v			09/13/17 23:31	1
1,2-Dichlorobenzene	0.25		0.20	0.045	ppb v/v			09/13/17 23:31	1
1,2,4-Trichlorobenzene	0.46	J	0.50	0.19	ppb v/v			09/13/17 23:31	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			09/13/17 23:31	1
Naphthalene	0.15	J	0.50	0.10	ppb v/v			09/13/17 23:31	1
1,2,3-Trichloropropane	5.5		0.50	0.087	ppb v/v			09/13/17 23:31	1
Alpha Methyl Styrene	0.43		0.20	0.062	ppb v/v			09/13/17 23:31	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.51	U	0.51	0.046	ug/m3			09/13/17 23:31	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			09/13/17 23:31	1
Dichlorodifluoromethane	2.9		2.5	0.23	ug/m3			09/13/17 23:31	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m3			09/13/17 23:31	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m3			09/13/17 23:31	1
Freon-114	1.4	U	1.4	0.29	ug/m3			09/13/17 23:31	1
Chloromethane	2.3		1.0	0.33	ug/m3			09/13/17 23:31	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			09/13/17 23:31	1
1,1,1-Trichloroethane	0.18	J	1.1	0.14	ug/m3			09/13/17 23:31	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE003

Date Collected: 09/08/17 11:20

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m ³			09/13/17 23:31	1
Bromomethane	0.78	U	0.78	0.14	ug/m ³			09/13/17 23:31	1
Chloroethane	1.3	U	1.3	0.34	ug/m ³			09/13/17 23:31	1
Trichloroethene	1.1		1.1	0.049	ug/m ³			09/13/17 23:31	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m ³			09/13/17 23:31	1
Trichlorofluoromethane	1.3		1.1	0.17	ug/m ³			09/13/17 23:31	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m ³			09/13/17 23:31	1
Freon 113	0.64	J	1.5	0.21	ug/m ³			09/13/17 23:31	1
Tetrachloroethene	5.5		1.4	0.066	ug/m ³			09/13/17 23:31	1
Acetone	38		12	3.1	ug/m ³			09/13/17 23:31	1
Carbon disulfide	2.2		1.6	0.087	ug/m ³			09/13/17 23:31	1
Allyl chloride	1.6	U	1.6	0.20	ug/m ³			09/13/17 23:31	1
Dichloromethane	0.51	J	1.7	0.24	ug/m ³			09/13/17 23:31	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m ³			09/13/17 23:31	1
Vinyl acetate	18	U	18	7.0	ug/m ³			09/13/17 23:31	1
2-Butanone (MEK)	17		1.5	0.32	ug/m ³			09/13/17 23:31	1
Chloroform	0.26	J	0.98	0.12	ug/m ³			09/13/17 23:31	1
Carbon tetrachloride	0.46	J	1.3	0.069	ug/m ³			09/13/17 23:31	1
Benzene	10		0.64	0.089	ug/m ³			09/13/17 23:31	1
n-Heptane	0.93		0.82	0.28	ug/m ³			09/13/17 23:31	1
Methyl methacrylate	2.0	U	2.0	0.45	ug/m ³			09/13/17 23:31	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m ³			09/13/17 23:31	1
1,4-Dioxane	18	U	18	2.7	ug/m ³			09/13/17 23:31	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m ³			09/13/17 23:31	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m ³			09/13/17 23:31	1
Methyl isobutyl ketone	7.6		2.0	0.27	ug/m ³			09/13/17 23:31	1
Toluene	2.9		0.75	0.13	ug/m ³			09/13/17 23:31	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m ³			09/13/17 23:31	1
Methyl Butyl Ketone (2-Hexanone)	0.47	J	2.0	0.35	ug/m ³			09/13/17 23:31	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m ³			09/13/17 23:31	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m ³			09/13/17 23:31	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m ³			09/13/17 23:31	1
Ethylbenzene	6.2		0.87	0.15	ug/m ³			09/13/17 23:31	1
m,p-Xylene	18		2.2	0.33	ug/m ³			09/13/17 23:31	1
Xylene, o-	7.7		0.87	0.17	ug/m ³			09/13/17 23:31	1
Styrene	0.19	J	0.85	0.15	ug/m ³			09/13/17 23:31	1
Bromoform	2.1	U	2.1	0.36	ug/m ³			09/13/17 23:31	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m ³			09/13/17 23:31	1
1,3,5-Trimethylbenzene	0.83	J	0.98	0.20	ug/m ³			09/13/17 23:31	1
1,2,4-Trimethylbenzene	1.3		0.98	0.28	ug/m ³			09/13/17 23:31	1
1,3-Dichlorobenzene	4.8		1.2	0.30	ug/m ³			09/13/17 23:31	1
1,4-Dichlorobenzene	3.6		1.2	0.38	ug/m ³			09/13/17 23:31	1
Benzyl chloride	1.0	U	1.0	0.35	ug/m ³			09/13/17 23:31	1
1,2-Dichlorobenzene	1.5		1.2	0.27	ug/m ³			09/13/17 23:31	1
1,2,4-Trichlorobenzene	3.4	J	3.7	1.4	ug/m ³			09/13/17 23:31	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m ³			09/13/17 23:31	1
Naphthalene	0.78	J	2.6	0.52	ug/m ³			09/13/17 23:31	1
1,2,3-Trichloropropene	33		3.0	0.52	ug/m ³			09/13/17 23:31	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE003

Date Collected: 09/08/17 11:20

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alpha Methyl Styrene	2.1		0.97	0.30	ug/m3			09/13/17 23:31	1

Client Sample ID: BE004

Date Collected: 09/08/17 11:22

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.60	U	0.60	0.054	ppb v/v			09/14/17 10:28	3
1,1-Dichloroethene	0.60	U	0.60	0.11	ppb v/v			09/14/17 10:28	3
Dichlorodifluoromethane	0.56	J	1.5	0.14	ppb v/v			09/14/17 10:28	3
trans-1,2-Dichloroethene	0.60	U	0.60	0.15	ppb v/v			09/14/17 10:28	3
1,1-Dichloroethane	0.60	U	0.60	0.051	ppb v/v			09/14/17 10:28	3
Freon-114	0.60	U	0.60	0.12	ppb v/v			09/14/17 10:28	3
Chloromethane	1.5	U	1.5	0.48	ppb v/v			09/14/17 10:28	3
cis-1,2-Dichloroethene	0.60	U	0.60	0.087	ppb v/v			09/14/17 10:28	3
1,1,1-Trichloroethane	0.60	U	0.60	0.078	ppb v/v			09/14/17 10:28	3
1,2-Dichloroethane	0.60	U	0.60	0.10	ppb v/v			09/14/17 10:28	3
Bromomethane	0.60	U	0.60	0.11	ppb v/v			09/14/17 10:28	3
Chloroethane	1.5	U	1.5	0.39	ppb v/v			09/14/17 10:28	3
Trichloroethene	0.37	J	0.60	0.027	ppb v/v			09/14/17 10:28	3
1,1,2-Trichloroethane	0.60	U	0.60	0.051	ppb v/v			09/14/17 10:28	3
Trichlorofluoromethane	0.54	J	0.60	0.093	ppb v/v			09/14/17 10:28	3
1,1,2,2-Tetrachloroethane	0.60	U	0.60	0.078	ppb v/v			09/14/17 10:28	3
Freon 113	0.60	U	0.60	0.081	ppb v/v			09/14/17 10:28	3
Tetrachloroethene	0.92		0.60	0.029	ppb v/v			09/14/17 10:28	3
Acetone	15	U	15	3.9	ppb v/v			09/14/17 10:28	3
Carbon disulfide	0.23	J	1.5	0.084	ppb v/v			09/14/17 10:28	3
Allyl chloride	1.5	U	1.5	0.19	ppb v/v			09/14/17 10:28	3
Dichloromethane	1.5	U	1.5	0.20	ppb v/v			09/14/17 10:28	3
Methyl tert-butyl ether	0.60	U	0.60	0.12	ppb v/v			09/14/17 10:28	3
Vinyl acetate	15	U	15	6.0	ppb v/v			09/14/17 10:28	3
2-Butanone (MEK)	1.1	J	1.5	0.33	ppb v/v			09/14/17 10:28	3
Chloroform	0.60	U	0.60	0.075	ppb v/v			09/14/17 10:28	3
Carbon tetrachloride	0.061	J	0.60	0.033	ppb v/v			09/14/17 10:28	3
Benzene	1.0		0.60	0.084	ppb v/v			09/14/17 10:28	3
n-Heptane	0.60	U	0.60	0.20	ppb v/v			09/14/17 10:28	3
Methyl methacrylate	1.5	U	1.5	0.33	ppb v/v			09/14/17 10:28	3
1,2-Dichloropropane	0.60	U	0.60	0.11	ppb v/v			09/14/17 10:28	3
1,4-Dioxane	15	U	15	2.3	ppb v/v			09/14/17 10:28	3
Bromodichloromethane	0.60	U	0.60	0.18	ppb v/v			09/14/17 10:28	3
cis-1,3-Dichloropropene	0.60	U	0.60	0.11	ppb v/v			09/14/17 10:28	3
Methyl isobutyl ketone	1.5	U	1.5	0.20	ppb v/v			09/14/17 10:28	3
Toluene	0.81		0.60	0.11	ppb v/v			09/14/17 10:28	3
trans-1,3-Dichloropropene	0.60	U	0.60	0.11	ppb v/v			09/14/17 10:28	3
Methyl Butyl Ketone (2-Hexanone)	1.5	U	1.5	0.26	ppb v/v			09/14/17 10:28	3
Dibromochloromethane	0.60	U	0.60	0.051	ppb v/v			09/14/17 10:28	3
1,2-Dibromoethane	0.60	U	0.60	0.069	ppb v/v			09/14/17 10:28	3

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE004

Date Collected: 09/08/17 11:22

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.60	U	0.60	0.075	ppb v/v			09/14/17 10:28	3
Ethylbenzene	0.66		0.60	0.10	ppb v/v			09/14/17 10:28	3
m,p-Xylene	0.62	J	1.5	0.23	ppb v/v			09/14/17 10:28	3
Xylene, o-	0.30	J	0.60	0.12	ppb v/v			09/14/17 10:28	3
Styrene	0.60	U	0.60	0.11	ppb v/v			09/14/17 10:28	3
Bromoform	0.60	U	0.60	0.11	ppb v/v			09/14/17 10:28	3
4-Ethyltoluene	0.60	U	0.60	0.12	ppb v/v			09/14/17 10:28	3
1,3,5-Trimethylbenzene	0.60	U	0.60	0.12	ppb v/v			09/14/17 10:28	3
1,2,4-Trimethylbenzene	0.60	U	0.60	0.17	ppb v/v			09/14/17 10:28	3
1,3-Dichlorobenzene	0.39	J	0.60	0.15	ppb v/v			09/14/17 10:28	3
1,4-Dichlorobenzene	0.29	J	0.60	0.19	ppb v/v			09/14/17 10:28	3
Benzyl chloride	0.60	U	0.60	0.20	ppb v/v			09/14/17 10:28	3
1,2-Dichlorobenzene	0.60	U	0.60	0.14	ppb v/v			09/14/17 10:28	3
1,2,4-Trichlorobenzene	1.5		1.5	0.57	ppb v/v			09/14/17 10:28	3
Hexachlorobutadiene	0.60	U	0.60	0.19	ppb v/v			09/14/17 10:28	3
Naphthalene	1.5	U	1.5	0.30	ppb v/v			09/14/17 10:28	3
1,2,3-Trichloropropane	53		1.5	0.26	ppb v/v			09/14/17 10:28	3
Alpha Methyl Styrene	0.60	U	0.60	0.19	ppb v/v			09/14/17 10:28	3
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.5	U	1.5	0.14	ug/m ³			09/14/17 10:28	3
1,1-Dichloroethene	2.4	U	2.4	0.42	ug/m ³			09/14/17 10:28	3
Dichlorodifluoromethane	2.8	J	7.4	0.70	ug/m ³			09/14/17 10:28	3
trans-1,2-Dichloroethene	2.4	U	2.4	0.59	ug/m ³			09/14/17 10:28	3
1,1-Dichloroethane	2.4	U	2.4	0.21	ug/m ³			09/14/17 10:28	3
Freon-114	4.2	U	4.2	0.86	ug/m ³			09/14/17 10:28	3
Chloromethane	3.1	U	3.1	0.99	ug/m ³			09/14/17 10:28	3
cis-1,2-Dichloroethene	2.4	U	2.4	0.34	ug/m ³			09/14/17 10:28	3
1,1,1-Trichloroethane	3.3	U	3.3	0.43	ug/m ³			09/14/17 10:28	3
1,2-Dichloroethane	2.4	U	2.4	0.41	ug/m ³			09/14/17 10:28	3
Bromomethane	2.3	U	2.3	0.42	ug/m ³			09/14/17 10:28	3
Chloroethane	4.0	U	4.0	1.0	ug/m ³			09/14/17 10:28	3
Trichloroethene	2.0	J	3.2	0.15	ug/m ³			09/14/17 10:28	3
1,1,2-Trichloroethane	3.3	U	3.3	0.28	ug/m ³			09/14/17 10:28	3
Trichlorofluoromethane	3.1	J	3.4	0.52	ug/m ³			09/14/17 10:28	3
1,1,2,2-Tetrachloroethane	4.1	U	4.1	0.54	ug/m ³			09/14/17 10:28	3
Freon 113	4.6	U	4.6	0.62	ug/m ³			09/14/17 10:28	3
Tetrachloroethene	6.3		4.1	0.20	ug/m ³			09/14/17 10:28	3
Acetone	36	U	36	9.3	ug/m ³			09/14/17 10:28	3
Carbon disulfide	0.71	J	4.7	0.26	ug/m ³			09/14/17 10:28	3
Allyl chloride	4.7	U	4.7	0.59	ug/m ³			09/14/17 10:28	3
Dichloromethane	5.2	U	5.2	0.71	ug/m ³			09/14/17 10:28	3
Methyl tert-butyl ether	2.2	U	2.2	0.44	ug/m ³			09/14/17 10:28	3
Vinyl acetate	53	U	53	21	ug/m ³			09/14/17 10:28	3
2-Butanone (MEK)	3.2	J	4.4	0.97	ug/m ³			09/14/17 10:28	3
Chloroform	2.9	U	2.9	0.37	ug/m ³			09/14/17 10:28	3
Carbon tetrachloride	0.39	J	3.8	0.21	ug/m ³			09/14/17 10:28	3
Benzene	3.3		1.9	0.27	ug/m ³			09/14/17 10:28	3
n-Heptane	2.5	U	2.5	0.84	ug/m ³			09/14/17 10:28	3

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE004

Date Collected: 09/08/17 11:22

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	6.1	U	6.1	1.4	ug/m ³			09/14/17 10:28	3
1,2-Dichloropropane	2.8	U	2.8	0.49	ug/m ³			09/14/17 10:28	3
1,4-Dioxane	54	U	54	8.2	ug/m ³			09/14/17 10:28	3
Bromodichloromethane	4.0	U	4.0	1.2	ug/m ³			09/14/17 10:28	3
cis-1,3-Dichloropropene	2.7	U	2.7	0.49	ug/m ³			09/14/17 10:28	3
Methyl isobutyl ketone	6.1	U	6.1	0.80	ug/m ³			09/14/17 10:28	3
Toluene	3.1		2.3	0.40	ug/m ³			09/14/17 10:28	3
trans-1,3-Dichloropropene	2.7	U	2.7	0.52	ug/m ³			09/14/17 10:28	3
Methyl Butyl Ketone (2-Hexanone)	6.1	U	6.1	1.1	ug/m ³			09/14/17 10:28	3
Dibromochloromethane	5.1	U	5.1	0.43	ug/m ³			09/14/17 10:28	3
1,2-Dibromoethane	4.6	U	4.6	0.53	ug/m ³			09/14/17 10:28	3
Chlorobenzene	2.8	U	2.8	0.35	ug/m ³			09/14/17 10:28	3
Ethylbenzene	2.9		2.6	0.44	ug/m ³			09/14/17 10:28	3
m,p-Xylene	2.7	J	6.5	1.0	ug/m ³			09/14/17 10:28	3
Xylene, o-	1.3	J	2.6	0.52	ug/m ³			09/14/17 10:28	3
Styrene	2.6	U	2.6	0.45	ug/m ³			09/14/17 10:28	3
Bromoform	6.2	U	6.2	1.1	ug/m ³			09/14/17 10:28	3
4-Ethyltoluene	2.9	U	2.9	0.59	ug/m ³			09/14/17 10:28	3
1,3,5-Trimethylbenzene	2.9	U	2.9	0.59	ug/m ³			09/14/17 10:28	3
1,2,4-Trimethylbenzene	2.9	U	2.9	0.84	ug/m ³			09/14/17 10:28	3
1,3-Dichlorobenzene	2.4	J	3.6	0.90	ug/m ³			09/14/17 10:28	3
1,4-Dichlorobenzene	1.7	J	3.6	1.1	ug/m ³			09/14/17 10:28	3
Benzyl chloride	3.1	U	3.1	1.0	ug/m ³			09/14/17 10:28	3
1,2-Dichlorobenzene	3.6	U	3.6	0.81	ug/m ³			09/14/17 10:28	3
1,2,4-Trichlorobenzene	11		11	4.2	ug/m ³			09/14/17 10:28	3
Hexachlorobutadiene	6.4	U	6.4	2.0	ug/m ³			09/14/17 10:28	3
Naphthalene	7.9	U	7.9	1.6	ug/m ³			09/14/17 10:28	3
1,2,3-Trichloropropane	320		9.0	1.6	ug/m ³			09/14/17 10:28	3
Alpha Methyl Styrene	2.9	U	2.9	0.90	ug/m ³			09/14/17 10:28	3

Client Sample ID: BE006

Date Collected: 09/08/17 11:28

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.14	J	0.20	0.018	ppb v/v			09/14/17 11:18	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			09/14/17 11:18	1
Dichlorodifluoromethane	0.54		0.50	0.047	ppb v/v			09/14/17 11:18	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			09/14/17 11:18	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 11:18	1
Freon-114	0.20	U	0.20	0.041	ppb v/v			09/14/17 11:18	1
Chloromethane	5.0		0.50	0.16	ppb v/v			09/14/17 11:18	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			09/14/17 11:18	1
1,1,1-Trichloroethane	0.20	U	0.20	0.026	ppb v/v			09/14/17 11:18	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			09/14/17 11:18	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			09/14/17 11:18	1
Chloroethane	0.16	J	0.50	0.13	ppb v/v			09/14/17 11:18	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE006

Date Collected: 09/08/17 11:28

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.041	J	0.20	0.0091	ppb v/v			09/14/17 11:18	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 11:18	1
Trichlorofluoromethane	0.57		0.20	0.031	ppb v/v			09/14/17 11:18	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			09/14/17 11:18	1
Freon 113	0.085	J	0.20	0.027	ppb v/v			09/14/17 11:18	1
Tetrachloroethene	0.29		0.20	0.0098	ppb v/v			09/14/17 11:18	1
Acetone	36		5.0	1.3	ppb v/v			09/14/17 11:18	1
Carbon disulfide	15		0.50	0.028	ppb v/v			09/14/17 11:18	1
Allyl chloride	0.50	U	0.50	0.063	ppb v/v			09/14/17 11:18	1
Dichloromethane	0.21	J	0.50	0.068	ppb v/v			09/14/17 11:18	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			09/14/17 11:18	1
Vinyl acetate	5.0	U	5.0	2.0	ppb v/v			09/14/17 11:18	1
2-Butanone (MEK)	4.7		0.50	0.11	ppb v/v			09/14/17 11:18	1
Chloroform	0.15	J	0.20	0.025	ppb v/v			09/14/17 11:18	1
Carbon tetrachloride	0.050	J	0.20	0.011	ppb v/v			09/14/17 11:18	1
Benzene	1.4		0.20	0.028	ppb v/v			09/14/17 11:18	1
n-Heptane	0.20	U	0.20	0.068	ppb v/v			09/14/17 11:18	1
Methyl methacrylate	0.50	U	0.50	0.11	ppb v/v			09/14/17 11:18	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			09/14/17 11:18	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			09/14/17 11:18	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			09/14/17 11:18	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			09/14/17 11:18	1
Methyl isobutyl ketone	0.15	J	0.50	0.065	ppb v/v			09/14/17 11:18	1
Toluene	0.58		0.20	0.035	ppb v/v			09/14/17 11:18	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			09/14/17 11:18	1
Methyl Butyl Ketone (2-Hexanone)	0.12	J	0.50	0.086	ppb v/v			09/14/17 11:18	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 11:18	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			09/14/17 11:18	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			09/14/17 11:18	1
Ethylbenzene	0.089	J	0.20	0.034	ppb v/v			09/14/17 11:18	1
m,p-Xylene	0.37	J	0.50	0.077	ppb v/v			09/14/17 11:18	1
Xylene, o-	0.16	J	0.20	0.040	ppb v/v			09/14/17 11:18	1
Styrene	0.20	U	0.20	0.035	ppb v/v			09/14/17 11:18	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			09/14/17 11:18	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			09/14/17 11:18	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.040	ppb v/v			09/14/17 11:18	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.057	ppb v/v			09/14/17 11:18	1
1,3-Dichlorobenzene	0.38		0.20	0.050	ppb v/v			09/14/17 11:18	1
1,4-Dichlorobenzene	0.48		0.20	0.063	ppb v/v			09/14/17 11:18	1
Benzyl chloride	0.20	U	0.20	0.067	ppb v/v			09/14/17 11:18	1
1,2-Dichlorobenzene	0.83		0.20	0.045	ppb v/v			09/14/17 11:18	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			09/14/17 11:18	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			09/14/17 11:18	1
Naphthalene	0.50	U	0.50	0.10	ppb v/v			09/14/17 11:18	1
1,2,3-Trichloropropene	0.49	J	0.50	0.087	ppb v/v			09/14/17 11:18	1
Alpha Methyl Styrene	0.16	J	0.20	0.062	ppb v/v			09/14/17 11:18	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.37	J	0.51	0.046	ug/m3			09/14/17 11:18	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE006

Date Collected: 09/08/17 11:28

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m ³			09/14/17 11:18	1
Dichlorodifluoromethane	2.7		2.5	0.23	ug/m ³			09/14/17 11:18	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m ³			09/14/17 11:18	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m ³			09/14/17 11:18	1
Freon-114	1.4	U	1.4	0.29	ug/m ³			09/14/17 11:18	1
Chloromethane	10		1.0	0.33	ug/m ³			09/14/17 11:18	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m ³			09/14/17 11:18	1
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m ³			09/14/17 11:18	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m ³			09/14/17 11:18	1
Bromomethane	0.78	U	0.78	0.14	ug/m ³			09/14/17 11:18	1
Chloroethane	0.43	J	1.3	0.34	ug/m ³			09/14/17 11:18	1
Trichloroethene	0.22	J	1.1	0.049	ug/m ³			09/14/17 11:18	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m ³			09/14/17 11:18	1
Trichlorofluoromethane	3.2		1.1	0.17	ug/m ³			09/14/17 11:18	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m ³			09/14/17 11:18	1
Freon 113	0.65	J	1.5	0.21	ug/m ³			09/14/17 11:18	1
Tetrachloroethene	2.0		1.4	0.066	ug/m ³			09/14/17 11:18	1
Acetone	86		12	3.1	ug/m ³			09/14/17 11:18	1
Carbon disulfide	48		1.6	0.087	ug/m ³			09/14/17 11:18	1
Allyl chloride	1.6	U	1.6	0.20	ug/m ³			09/14/17 11:18	1
Dichloromethane	0.72	J	1.7	0.24	ug/m ³			09/14/17 11:18	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m ³			09/14/17 11:18	1
Vinyl acetate	18	U	18	7.0	ug/m ³			09/14/17 11:18	1
2-Butanone (MEK)	14		1.5	0.32	ug/m ³			09/14/17 11:18	1
Chloroform	0.74	J	0.98	0.12	ug/m ³			09/14/17 11:18	1
Carbon tetrachloride	0.31	J	1.3	0.069	ug/m ³			09/14/17 11:18	1
Benzene	4.6		0.64	0.089	ug/m ³			09/14/17 11:18	1
n-Heptane	0.82	U	0.82	0.28	ug/m ³			09/14/17 11:18	1
Methyl methacrylate	2.0	U	2.0	0.45	ug/m ³			09/14/17 11:18	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m ³			09/14/17 11:18	1
1,4-Dioxane	18	U	18	2.7	ug/m ³			09/14/17 11:18	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m ³			09/14/17 11:18	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m ³			09/14/17 11:18	1
Methyl isobutyl ketone	0.60	J	2.0	0.27	ug/m³			09/14/17 11:18	1
Toluene	2.2		0.75	0.13	ug/m ³			09/14/17 11:18	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m ³			09/14/17 11:18	1
Methyl Butyl Ketone (2-Hexanone)	0.50	J	2.0	0.35	ug/m³			09/14/17 11:18	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m ³			09/14/17 11:18	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m ³			09/14/17 11:18	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m ³			09/14/17 11:18	1
Ethylbenzene	0.39	J	0.87	0.15	ug/m ³			09/14/17 11:18	1
m,p-Xylene	1.6	J	2.2	0.33	ug/m ³			09/14/17 11:18	1
Xylene, o-	0.68	J	0.87	0.17	ug/m ³			09/14/17 11:18	1
Styrene	0.85	U	0.85	0.15	ug/m ³			09/14/17 11:18	1
Bromoform	2.1	U	2.1	0.36	ug/m ³			09/14/17 11:18	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m ³			09/14/17 11:18	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.20	ug/m ³			09/14/17 11:18	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.28	ug/m ³			09/14/17 11:18	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE006

Date Collected: 09/08/17 11:28

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	2.3		1.2	0.30	ug/m ³			09/14/17 11:18	1
1,4-Dichlorobenzene	2.9		1.2	0.38	ug/m ³			09/14/17 11:18	1
Benzyl chloride	1.0	U	1.0	0.35	ug/m ³			09/14/17 11:18	1
1,2-Dichlorobenzene	5.0		1.2	0.27	ug/m ³			09/14/17 11:18	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m ³			09/14/17 11:18	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m ³			09/14/17 11:18	1
Naphthalene	2.6	U	2.6	0.52	ug/m ³			09/14/17 11:18	1
1,2,3-Trichloropropane	3.0	J	3.0	0.52	ug/m ³			09/14/17 11:18	1
Alpha Methyl Styrene	0.79	J	0.97	0.30	ug/m ³			09/14/17 11:18	1

Client Sample ID: BE005

Date Collected: 09/08/17 11:15

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.036	J	0.20	0.018	ppb v/v			09/14/17 02:03	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			09/14/17 02:03	1
Dichlorodifluoromethane	0.49	J	0.50	0.047	ppb v/v			09/14/17 02:03	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			09/14/17 02:03	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 02:03	1
Freon-114	0.20	U	0.20	0.041	ppb v/v			09/14/17 02:03	1
Chloromethane	0.72		0.50	0.16	ppb v/v			09/14/17 02:03	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			09/14/17 02:03	1
1,1,1-Trichloroethane	0.043	J	0.20	0.026	ppb v/v			09/14/17 02:03	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			09/14/17 02:03	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			09/14/17 02:03	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			09/14/17 02:03	1
Trichloroethene	1.7		0.20	0.0091	ppb v/v			09/14/17 02:03	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 02:03	1
Trichlorofluoromethane	0.35		0.20	0.031	ppb v/v			09/14/17 02:03	1
1,1,2,2-Tetrachloroethane	0.080	J	0.20	0.026	ppb v/v			09/14/17 02:03	1
Freon 113	0.075	J	0.20	0.027	ppb v/v			09/14/17 02:03	1
Tetrachloroethene	2.5		0.20	0.0098	ppb v/v			09/14/17 02:03	1
Acetone	15		5.0	1.3	ppb v/v			09/14/17 02:03	1
Carbon disulfide	0.87		0.50	0.028	ppb v/v			09/14/17 02:03	1
Allyl chloride	0.50	U	0.50	0.063	ppb v/v			09/14/17 02:03	1
Dichloromethane	0.13	J	0.50	0.068	ppb v/v			09/14/17 02:03	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			09/14/17 02:03	1
Vinyl acetate	5.0	U	5.0	2.0	ppb v/v			09/14/17 02:03	1
2-Butanone (MEK)	2.4		0.50	0.11	ppb v/v			09/14/17 02:03	1
Chloroform	0.30		0.20	0.025	ppb v/v			09/14/17 02:03	1
Carbon tetrachloride	0.067	J	0.20	0.011	ppb v/v			09/14/17 02:03	1
Benzene	3.2		0.20	0.028	ppb v/v			09/14/17 02:03	1
n-Heptane	0.26		0.20	0.068	ppb v/v			09/14/17 02:03	1
Methyl methacrylate	0.50	U	0.50	0.11	ppb v/v			09/14/17 02:03	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			09/14/17 02:03	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			09/14/17 02:03	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE005

Date Collected: 09/08/17 11:15

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			09/14/17 02:03	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			09/14/17 02:03	1
Methyl isobutyl ketone	0.22	J	0.50	0.065	ppb v/v			09/14/17 02:03	1
Toluene	0.61		0.20	0.035	ppb v/v			09/14/17 02:03	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			09/14/17 02:03	1
Methyl Butyl Ketone (2-Hexanone)	0.47	J	0.50	0.086	ppb v/v			09/14/17 02:03	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 02:03	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			09/14/17 02:03	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			09/14/17 02:03	1
Ethylbenzene	0.20		0.20	0.034	ppb v/v			09/14/17 02:03	1
m,p-Xylene	0.45	J	0.50	0.077	ppb v/v			09/14/17 02:03	1
Xylene, o-	0.19	J	0.20	0.040	ppb v/v			09/14/17 02:03	1
Styrene	0.037	J	0.20	0.035	ppb v/v			09/14/17 02:03	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			09/14/17 02:03	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			09/14/17 02:03	1
1,3,5-Trimethylbenzene	0.045	J	0.20	0.040	ppb v/v			09/14/17 02:03	1
1,2,4-Trimethylbenzene	0.12	J	0.20	0.057	ppb v/v			09/14/17 02:03	1
1,3-Dichlorobenzene	0.57		0.20	0.050	ppb v/v			09/14/17 02:03	1
1,4-Dichlorobenzene	0.36		0.20	0.063	ppb v/v			09/14/17 02:03	1
Benzyl chloride	0.20	U	0.20	0.067	ppb v/v			09/14/17 02:03	1
1,2-Dichlorobenzene	0.21		0.20	0.045	ppb v/v			09/14/17 02:03	1
1,2,4-Trichlorobenzene	3.5		0.50	0.19	ppb v/v			09/14/17 02:03	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			09/14/17 02:03	1
Naphthalene	0.15	J	0.50	0.10	ppb v/v			09/14/17 02:03	1
1,2,3-Trichloropropane	23		0.50	0.087	ppb v/v			09/14/17 02:03	1
Alpha Methyl Styrene	0.090	J	0.20	0.062	ppb v/v			09/14/17 02:03	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.092	J	0.51	0.046	ug/m ³			09/14/17 02:03	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m ³			09/14/17 02:03	1
Dichlorodifluoromethane	2.4	J	2.5	0.23	ug/m ³			09/14/17 02:03	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m ³			09/14/17 02:03	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m ³			09/14/17 02:03	1
Freon-114	1.4	U	1.4	0.29	ug/m ³			09/14/17 02:03	1
Chloromethane	1.5		1.0	0.33	ug/m ³			09/14/17 02:03	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m ³			09/14/17 02:03	1
1,1,1-Trichloroethane	0.23	J	1.1	0.14	ug/m ³			09/14/17 02:03	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m ³			09/14/17 02:03	1
Bromomethane	0.78	U	0.78	0.14	ug/m ³			09/14/17 02:03	1
Chloroethane	1.3	U	1.3	0.34	ug/m ³			09/14/17 02:03	1
Trichloroethene	9.1		1.1	0.049	ug/m ³			09/14/17 02:03	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m ³			09/14/17 02:03	1
Trichlorofluoromethane	2.0		1.1	0.17	ug/m ³			09/14/17 02:03	1
1,1,2,2-Tetrachloroethane	0.55	J	1.4	0.18	ug/m ³			09/14/17 02:03	1
Freon 113	0.58	J	1.5	0.21	ug/m ³			09/14/17 02:03	1
Tetrachloroethene	17		1.4	0.066	ug/m ³			09/14/17 02:03	1
Acetone	35		12	3.1	ug/m ³			09/14/17 02:03	1
Carbon disulfide	2.7		1.6	0.087	ug/m ³			09/14/17 02:03	1
Allyl chloride	1.6	U	1.6	0.20	ug/m ³			09/14/17 02:03	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
SDG: BE002

Client Sample ID: BE005

Date Collected: 09/08/17 11:15

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichloromethane	0.46	J	1.7	0.24	ug/m ³			09/14/17 02:03	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m ³			09/14/17 02:03	1
Vinyl acetate	18	U	18	7.0	ug/m ³			09/14/17 02:03	1
2-Butanone (MEK)	7.2		1.5	0.32	ug/m ³			09/14/17 02:03	1
Chloroform	1.5		0.98	0.12	ug/m ³			09/14/17 02:03	1
Carbon tetrachloride	0.42	J	1.3	0.069	ug/m ³			09/14/17 02:03	1
Benzene	10		0.64	0.089	ug/m ³			09/14/17 02:03	1
n-Heptane	1.1		0.82	0.28	ug/m ³			09/14/17 02:03	1
Methyl methacrylate	2.0	U	2.0	0.45	ug/m ³			09/14/17 02:03	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m ³			09/14/17 02:03	1
1,4-Dioxane	18	U	18	2.7	ug/m ³			09/14/17 02:03	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m ³			09/14/17 02:03	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m ³			09/14/17 02:03	1
Methyl isobutyl ketone	0.91	J	2.0	0.27	ug/m ³			09/14/17 02:03	1
Toluene	2.3		0.75	0.13	ug/m ³			09/14/17 02:03	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m ³			09/14/17 02:03	1
Methyl Butyl Ketone (2-Hexanone)	1.9	J	2.0	0.35	ug/m ³			09/14/17 02:03	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m ³			09/14/17 02:03	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m ³			09/14/17 02:03	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m ³			09/14/17 02:03	1
Ethylbenzene	0.88		0.87	0.15	ug/m ³			09/14/17 02:03	1
m,p-Xylene	2.0	J	2.2	0.33	ug/m ³			09/14/17 02:03	1
Xylene, o-	0.82	J	0.87	0.17	ug/m ³			09/14/17 02:03	1
Styrene	0.16	J	0.85	0.15	ug/m ³			09/14/17 02:03	1
Bromoform	2.1	U	2.1	0.36	ug/m ³			09/14/17 02:03	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m ³			09/14/17 02:03	1
1,3,5-Trimethylbenzene	0.22	J	0.98	0.20	ug/m ³			09/14/17 02:03	1
1,2,4-Trimethylbenzene	0.59	J	0.98	0.28	ug/m ³			09/14/17 02:03	1
1,3-Dichlorobenzene	3.4		1.2	0.30	ug/m ³			09/14/17 02:03	1
1,4-Dichlorobenzene	2.2		1.2	0.38	ug/m ³			09/14/17 02:03	1
Benzyl chloride	1.0	U	1.0	0.35	ug/m ³			09/14/17 02:03	1
1,2-Dichlorobenzene	1.3		1.2	0.27	ug/m ³			09/14/17 02:03	1
1,2,4-Trichlorobenzene	26		3.7	1.4	ug/m ³			09/14/17 02:03	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m ³			09/14/17 02:03	1
Naphthalene	0.76	J	2.6	0.52	ug/m ³			09/14/17 02:03	1
1,2,3-Trichloropropane	140		3.0	0.52	ug/m ³			09/14/17 02:03	1
Alpha Methyl Styrene	0.43	J	0.97	0.30	ug/m ³			09/14/17 02:03	1

Client Sample ID: BE007

Date Collected: 09/08/17 11:13

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.20	U	0.20	0.018	ppb v/v			09/14/17 21:17	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			09/14/17 21:17	1
Dichlorodifluoromethane	0.49	J	0.50	0.047	ppb v/v			09/14/17 21:17	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			09/14/17 21:17	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE007

Date Collected: 09/08/17 11:13

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 21:17	1
Freon-114	0.20	U	0.20	0.041	ppb v/v			09/14/17 21:17	1
Chloromethane	0.45	J	0.50	0.16	ppb v/v			09/14/17 21:17	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			09/14/17 21:17	1
1,1,1-Trichloroethane	0.20	U	0.20	0.026	ppb v/v			09/14/17 21:17	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			09/14/17 21:17	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			09/14/17 21:17	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			09/14/17 21:17	1
Trichloroethene	0.20	U	0.20	0.0091	ppb v/v			09/14/17 21:17	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 21:17	1
Trichlorofluoromethane	0.22		0.20	0.031	ppb v/v			09/14/17 21:17	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			09/14/17 21:17	1
Freon 113	0.077	J	0.20	0.027	ppb v/v			09/14/17 21:17	1
Tetrachloroethene	0.028	J	0.20	0.0098	ppb v/v			09/14/17 21:17	1
Acetone	2.9	J	5.0	1.3	ppb v/v			09/14/17 21:17	1
Carbon disulfide	0.50	U	0.50	0.028	ppb v/v			09/14/17 21:17	1
Allyl chloride	0.50	U	0.50	0.063	ppb v/v			09/14/17 21:17	1
Dichloromethane	0.11	J	0.50	0.068	ppb v/v			09/14/17 21:17	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			09/14/17 21:17	1
Vinyl acetate	5.0	U	5.0	2.0	ppb v/v			09/14/17 21:17	1
2-Butanone (MEK)	0.46	J	0.50	0.11	ppb v/v			09/14/17 21:17	1
Chloroform	0.028	J	0.20	0.025	ppb v/v			09/14/17 21:17	1
Carbon tetrachloride	0.056	J	0.20	0.011	ppb v/v			09/14/17 21:17	1
Benzene	0.14	J	0.20	0.028	ppb v/v			09/14/17 21:17	1
n-Heptane	0.20	U	0.20	0.068	ppb v/v			09/14/17 21:17	1
Methyl methacrylate	0.50	U	0.50	0.11	ppb v/v			09/14/17 21:17	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			09/14/17 21:17	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			09/14/17 21:17	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			09/14/17 21:17	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			09/14/17 21:17	1
Methyl isobutyl ketone	0.50	U	0.50	0.065	ppb v/v			09/14/17 21:17	1
Toluene	0.23		0.20	0.035	ppb v/v			09/14/17 21:17	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			09/14/17 21:17	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.086	ppb v/v			09/14/17 21:17	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 21:17	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			09/14/17 21:17	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			09/14/17 21:17	1
Ethylbenzene	0.043	J	0.20	0.034	ppb v/v			09/14/17 21:17	1
m,p-Xylene	0.11	J	0.50	0.077	ppb v/v			09/14/17 21:17	1
Xylene, o-	0.045	J	0.20	0.040	ppb v/v			09/14/17 21:17	1
Styrene	0.20	U	0.20	0.035	ppb v/v			09/14/17 21:17	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			09/14/17 21:17	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			09/14/17 21:17	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.040	ppb v/v			09/14/17 21:17	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.057	ppb v/v			09/14/17 21:17	1
1,3-Dichlorobenzene	0.20	U	0.20	0.050	ppb v/v			09/14/17 21:17	1
1,4-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			09/14/17 21:17	1
Benzyl chloride	0.20	U	0.20	0.067	ppb v/v			09/14/17 21:17	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE007

Date Collected: 09/08/17 11:13

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.20	U	0.20	0.045	ppb v/v			09/14/17 21:17	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			09/14/17 21:17	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			09/14/17 21:17	1
Naphthalene	0.50	U	0.50	0.10	ppb v/v			09/14/17 21:17	1
1,2,3-Trichloropropane	0.50	U	0.50	0.087	ppb v/v			09/14/17 21:17	1
Alpha Methyl Styrene	0.20	U	0.20	0.062	ppb v/v			09/14/17 21:17	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.51	U	0.51	0.046	ug/m ³			09/14/17 21:17	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m ³			09/14/17 21:17	1
Dichlorodifluoromethane	2.4	J	2.5	0.23	ug/m ³			09/14/17 21:17	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m ³			09/14/17 21:17	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m ³			09/14/17 21:17	1
Freon-114	1.4	U	1.4	0.29	ug/m ³			09/14/17 21:17	1
Chloromethane	0.93	J	1.0	0.33	ug/m ³			09/14/17 21:17	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m ³			09/14/17 21:17	1
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m ³			09/14/17 21:17	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m ³			09/14/17 21:17	1
Bromomethane	0.78	U	0.78	0.14	ug/m ³			09/14/17 21:17	1
Chloroethane	1.3	U	1.3	0.34	ug/m ³			09/14/17 21:17	1
Trichloroethene	1.1	U	1.1	0.049	ug/m ³			09/14/17 21:17	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m ³			09/14/17 21:17	1
Trichlorofluoromethane	1.2		1.1	0.17	ug/m ³			09/14/17 21:17	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m ³			09/14/17 21:17	1
Freon 113	0.59	J	1.5	0.21	ug/m ³			09/14/17 21:17	1
Tetrachloroethene	0.19	J	1.4	0.066	ug/m ³			09/14/17 21:17	1
Acetone	6.8	J	12	3.1	ug/m ³			09/14/17 21:17	1
Carbon disulfide	1.6	U	1.6	0.087	ug/m ³			09/14/17 21:17	1
Allyl chloride	1.6	U	1.6	0.20	ug/m ³			09/14/17 21:17	1
Dichloromethane	0.38	J	1.7	0.24	ug/m ³			09/14/17 21:17	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m ³			09/14/17 21:17	1
Vinyl acetate	18	U	18	7.0	ug/m ³			09/14/17 21:17	1
2-Butanone (MEK)	1.4	J	1.5	0.32	ug/m ³			09/14/17 21:17	1
Chloroform	0.14	J	0.98	0.12	ug/m ³			09/14/17 21:17	1
Carbon tetrachloride	0.35	J	1.3	0.069	ug/m ³			09/14/17 21:17	1
Benzene	0.44	J	0.64	0.089	ug/m ³			09/14/17 21:17	1
n-Heptane	0.82	U	0.82	0.28	ug/m ³			09/14/17 21:17	1
Methyl methacrylate	2.0	U	2.0	0.45	ug/m ³			09/14/17 21:17	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m ³			09/14/17 21:17	1
1,4-Dioxane	18	U	18	2.7	ug/m ³			09/14/17 21:17	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m ³			09/14/17 21:17	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m ³			09/14/17 21:17	1
Methyl isobutyl ketone	2.0	U	2.0	0.27	ug/m ³			09/14/17 21:17	1
Toluene	0.87		0.75	0.13	ug/m ³			09/14/17 21:17	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m ³			09/14/17 21:17	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.35	ug/m ³			09/14/17 21:17	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m ³			09/14/17 21:17	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m ³			09/14/17 21:17	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m ³			09/14/17 21:17	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
SDG: BE002

Client Sample ID: BE007

Date Collected: 09/08/17 11:13

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.19	J	0.87	0.15	ug/m3			09/14/17 21:17	1
m,p-Xylene	0.49	J	2.2	0.33	ug/m3			09/14/17 21:17	1
Xylene, o-	0.19	J	0.87	0.17	ug/m3			09/14/17 21:17	1
Styrene	0.85	U	0.85	0.15	ug/m3			09/14/17 21:17	1
Bromoform	2.1	U	2.1	0.36	ug/m3			09/14/17 21:17	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m3			09/14/17 21:17	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.20	ug/m3			09/14/17 21:17	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.28	ug/m3			09/14/17 21:17	1
1,3-Dichlorobenzene	1.2	U	1.2	0.30	ug/m3			09/14/17 21:17	1
1,4-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			09/14/17 21:17	1
Benzyl chloride	1.0	U	1.0	0.35	ug/m3			09/14/17 21:17	1
1,2-Dichlorobenzene	1.2	U	1.2	0.27	ug/m3			09/14/17 21:17	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			09/14/17 21:17	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m3			09/14/17 21:17	1
Naphthalene	2.6	U	2.6	0.52	ug/m3			09/14/17 21:17	1
1,2,3-Trichloropropane	3.0	U	3.0	0.52	ug/m3			09/14/17 21:17	1
Alpha Methyl Styrene	0.97	U	0.97	0.30	ug/m3			09/14/17 21:17	1

Client Sample ID: BE008

Date Collected: 09/08/17 11:16

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-7

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.20	U	0.20	0.018	ppb v/v			09/14/17 03:44	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			09/14/17 03:44	1
Dichlorodifluoromethane	0.51		0.50	0.047	ppb v/v			09/14/17 03:44	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			09/14/17 03:44	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 03:44	1
Freon-114	0.20	U	0.20	0.041	ppb v/v			09/14/17 03:44	1
Chloromethane	0.73		0.50	0.16	ppb v/v			09/14/17 03:44	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			09/14/17 03:44	1
1,1,1-Trichloroethane	0.20	U	0.20	0.026	ppb v/v			09/14/17 03:44	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			09/14/17 03:44	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			09/14/17 03:44	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			09/14/17 03:44	1
Trichloroethene	0.049	J	0.20	0.0091	ppb v/v			09/14/17 03:44	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 03:44	1
Trichlorofluoromethane	0.24		0.20	0.031	ppb v/v			09/14/17 03:44	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			09/14/17 03:44	1
Freon 113	0.076	J	0.20	0.027	ppb v/v			09/14/17 03:44	1
Tetrachloroethene	0.29		0.20	0.0098	ppb v/v			09/14/17 03:44	1
Acetone	3.0	J	5.0	1.3	ppb v/v			09/14/17 03:44	1
Carbon disulfide	0.25	J	0.50	0.028	ppb v/v			09/14/17 03:44	1
Allyl chloride	0.50	U	0.50	0.063	ppb v/v			09/14/17 03:44	1
Dichloromethane	0.11	J	0.50	0.068	ppb v/v			09/14/17 03:44	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			09/14/17 03:44	1
Vinyl acetate	5.0	U	5.0	2.0	ppb v/v			09/14/17 03:44	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE008

Date Collected: 09/08/17 11:16

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-7

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	0.21	J	0.50	0.11	ppb v/v			09/14/17 03:44	1
Chloroform	0.027	J	0.20	0.025	ppb v/v			09/14/17 03:44	1
Carbon tetrachloride	0.076	J	0.20	0.011	ppb v/v			09/14/17 03:44	1
Benzene	0.72		0.20	0.028	ppb v/v			09/14/17 03:44	1
n-Heptane	0.16	J	0.20	0.068	ppb v/v			09/14/17 03:44	1
Methyl methacrylate	0.50	U	0.50	0.11	ppb v/v			09/14/17 03:44	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			09/14/17 03:44	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			09/14/17 03:44	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			09/14/17 03:44	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			09/14/17 03:44	1
Methyl isobutyl ketone	0.50	U	0.50	0.065	ppb v/v			09/14/17 03:44	1
Toluene	0.51		0.20	0.035	ppb v/v			09/14/17 03:44	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			09/14/17 03:44	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.086	ppb v/v			09/14/17 03:44	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 03:44	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			09/14/17 03:44	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			09/14/17 03:44	1
Ethylbenzene	0.57		0.20	0.034	ppb v/v			09/14/17 03:44	1
m,p-Xylene	2.0		0.50	0.077	ppb v/v			09/14/17 03:44	1
Xylene, o-	0.70		0.20	0.040	ppb v/v			09/14/17 03:44	1
Styrene	0.20	U	0.20	0.035	ppb v/v			09/14/17 03:44	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			09/14/17 03:44	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			09/14/17 03:44	1
1,3,5-Trimethylbenzene	0.062	J	0.20	0.040	ppb v/v			09/14/17 03:44	1
1,2,4-Trimethylbenzene	0.12	J	0.20	0.057	ppb v/v			09/14/17 03:44	1
1,3-Dichlorobenzene	0.20		0.20	0.050	ppb v/v			09/14/17 03:44	1
1,4-Dichlorobenzene	0.17	J	0.20	0.063	ppb v/v			09/14/17 03:44	1
Benzyl chloride	0.20	U	0.20	0.067	ppb v/v			09/14/17 03:44	1
1,2-Dichlorobenzene	0.097	J	0.20	0.045	ppb v/v			09/14/17 03:44	1
1,2,4-Trichlorobenzene	0.54		0.50	0.19	ppb v/v			09/14/17 03:44	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			09/14/17 03:44	1
Naphthalene	0.15	J	0.50	0.10	ppb v/v			09/14/17 03:44	1
1,2,3-Trichloropropane	1.7		0.50	0.087	ppb v/v			09/14/17 03:44	1
Alpha Methyl Styrene	0.084	J	0.20	0.062	ppb v/v			09/14/17 03:44	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.51	U	0.51	0.046	ug/m3			09/14/17 03:44	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			09/14/17 03:44	1
Dichlorodifluoromethane	2.5		2.5	0.23	ug/m3			09/14/17 03:44	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m3			09/14/17 03:44	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m3			09/14/17 03:44	1
Freon-114	1.4	U	1.4	0.29	ug/m3			09/14/17 03:44	1
Chloromethane	1.5		1.0	0.33	ug/m3			09/14/17 03:44	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			09/14/17 03:44	1
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m3			09/14/17 03:44	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m3			09/14/17 03:44	1
Bromomethane	0.78	U	0.78	0.14	ug/m3			09/14/17 03:44	1
Chloroethane	1.3	U	1.3	0.34	ug/m3			09/14/17 03:44	1
Trichloroethene	0.26	J	1.1	0.049	ug/m3			09/14/17 03:44	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE008

Date Collected: 09/08/17 11:16

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-7

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			09/14/17 03:44	1
Trichlorofluoromethane	1.3		1.1	0.17	ug/m3			09/14/17 03:44	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m3			09/14/17 03:44	1
Freon 113	0.58	J	1.5	0.21	ug/m3			09/14/17 03:44	1
Tetrachloroethene	1.9		1.4	0.066	ug/m3			09/14/17 03:44	1
Acetone	7.1	J	12	3.1	ug/m3			09/14/17 03:44	1
Carbon disulfide	0.78	J	1.6	0.087	ug/m3			09/14/17 03:44	1
Allyl chloride	1.6	U	1.6	0.20	ug/m3			09/14/17 03:44	1
Dichloromethane	0.37	J	1.7	0.24	ug/m3			09/14/17 03:44	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m3			09/14/17 03:44	1
Vinyl acetate	18	U	18	7.0	ug/m3			09/14/17 03:44	1
2-Butanone (MEK)	0.63	J	1.5	0.32	ug/m3			09/14/17 03:44	1
Chloroform	0.13	J	0.98	0.12	ug/m3			09/14/17 03:44	1
Carbon tetrachloride	0.48	J	1.3	0.069	ug/m3			09/14/17 03:44	1
Benzene	2.3		0.64	0.089	ug/m3			09/14/17 03:44	1
n-Heptane	0.66	J	0.82	0.28	ug/m3			09/14/17 03:44	1
Methyl methacrylate	2.0	U	2.0	0.45	ug/m3			09/14/17 03:44	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m3			09/14/17 03:44	1
1,4-Dioxane	18	U	18	2.7	ug/m3			09/14/17 03:44	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m3			09/14/17 03:44	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m3			09/14/17 03:44	1
Methyl isobutyl ketone	2.0	U	2.0	0.27	ug/m3			09/14/17 03:44	1
Toluene	1.9		0.75	0.13	ug/m3			09/14/17 03:44	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m3			09/14/17 03:44	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.35	ug/m3			09/14/17 03:44	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m3			09/14/17 03:44	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m3			09/14/17 03:44	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m3			09/14/17 03:44	1
Ethylbenzene	2.5		0.87	0.15	ug/m3			09/14/17 03:44	1
m,p-Xylene	8.5		2.2	0.33	ug/m3			09/14/17 03:44	1
Xylene, o-	3.0		0.87	0.17	ug/m3			09/14/17 03:44	1
Styrene	0.85	U	0.85	0.15	ug/m3			09/14/17 03:44	1
Bromoform	2.1	U	2.1	0.36	ug/m3			09/14/17 03:44	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m3			09/14/17 03:44	1
1,3,5-Trimethylbenzene	0.30	J	0.98	0.20	ug/m3			09/14/17 03:44	1
1,2,4-Trimethylbenzene	0.60	J	0.98	0.28	ug/m3			09/14/17 03:44	1
1,3-Dichlorobenzene	1.2		1.2	0.30	ug/m3			09/14/17 03:44	1
1,4-Dichlorobenzene	1.0	J	1.2	0.38	ug/m3			09/14/17 03:44	1
Benzyl chloride	1.0	U	1.0	0.35	ug/m3			09/14/17 03:44	1
1,2-Dichlorobenzene	0.58	J	1.2	0.27	ug/m3			09/14/17 03:44	1
1,2,4-Trichlorobenzene	4.0		3.7	1.4	ug/m3			09/14/17 03:44	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m3			09/14/17 03:44	1
Naphthalene	0.80	J	2.6	0.52	ug/m3			09/14/17 03:44	1
1,2,3-Trichloropropane	10		3.0	0.52	ug/m3			09/14/17 03:44	1
Alpha Methyl Styrene	0.41	J	0.97	0.30	ug/m3			09/14/17 03:44	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE009

Date Collected: 09/08/17 11:16

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.20	U	0.20	0.018	ppb v/v			09/14/17 22:08	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			09/14/17 22:08	1
Dichlorodifluoromethane	0.54		0.50	0.047	ppb v/v			09/14/17 22:08	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			09/14/17 22:08	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 22:08	1
Freon-114	0.20	U	0.20	0.041	ppb v/v			09/14/17 22:08	1
Chloromethane	0.73		0.50	0.16	ppb v/v			09/14/17 22:08	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			09/14/17 22:08	1
1,1,1-Trichloroethane	0.20	U	0.20	0.026	ppb v/v			09/14/17 22:08	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			09/14/17 22:08	1
Bromomethane	0.065	J	0.20	0.036	ppb v/v			09/14/17 22:08	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			09/14/17 22:08	1
Trichloroethene	0.059	J	0.20	0.0091	ppb v/v			09/14/17 22:08	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 22:08	1
Trichlorofluoromethane	0.25		0.20	0.031	ppb v/v			09/14/17 22:08	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			09/14/17 22:08	1
Freon 113	0.077	J	0.20	0.027	ppb v/v			09/14/17 22:08	1
Tetrachloroethene	0.22		0.20	0.0098	ppb v/v			09/14/17 22:08	1
Acetone	5.6		5.0	1.3	ppb v/v			09/14/17 22:08	1
Carbon disulfide	0.12	J	0.50	0.028	ppb v/v			09/14/17 22:08	1
Allyl chloride	0.50	U	0.50	0.063	ppb v/v			09/14/17 22:08	1
Dichloromethane	0.13	J	0.50	0.068	ppb v/v			09/14/17 22:08	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			09/14/17 22:08	1
Vinyl acetate	5.0	U	5.0	2.0	ppb v/v			09/14/17 22:08	1
2-Butanone (MEK)	0.47	J	0.50	0.11	ppb v/v			09/14/17 22:08	1
Chloroform	0.036	J	0.20	0.025	ppb v/v			09/14/17 22:08	1
Carbon tetrachloride	0.073	J	0.20	0.011	ppb v/v			09/14/17 22:08	1
Benzene	0.51		0.20	0.028	ppb v/v			09/14/17 22:08	1
n-Heptane	0.13	J	0.20	0.068	ppb v/v			09/14/17 22:08	1
Methyl methacrylate	0.50	U	0.50	0.11	ppb v/v			09/14/17 22:08	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			09/14/17 22:08	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			09/14/17 22:08	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			09/14/17 22:08	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			09/14/17 22:08	1
Methyl isobutyl ketone	0.50	U	0.50	0.065	ppb v/v			09/14/17 22:08	1
Toluene	0.45		0.20	0.035	ppb v/v			09/14/17 22:08	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			09/14/17 22:08	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.086	ppb v/v			09/14/17 22:08	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			09/14/17 22:08	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			09/14/17 22:08	1
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			09/14/17 22:08	1
Ethylbenzene	0.47		0.20	0.034	ppb v/v			09/14/17 22:08	1
m,p-Xylene	1.5		0.50	0.077	ppb v/v			09/14/17 22:08	1
Xylene, o-	0.55		0.20	0.040	ppb v/v			09/14/17 22:08	1
Styrene	0.20	U	0.20	0.035	ppb v/v			09/14/17 22:08	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			09/14/17 22:08	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			09/14/17 22:08	1
1,3,5-Trimethylbenzene	0.042	J	0.20	0.040	ppb v/v			09/14/17 22:08	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE009

Date Collected: 09/08/17 11:16

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.092	J	0.20	0.057	ppb v/v			09/14/17 22:08	1
1,3-Dichlorobenzene	0.13	J	0.20	0.050	ppb v/v			09/14/17 22:08	1
1,4-Dichlorobenzene	0.13	J	0.20	0.063	ppb v/v			09/14/17 22:08	1
Benzyl chloride	0.20	U	0.20	0.067	ppb v/v			09/14/17 22:08	1
1,2-Dichlorobenzene	0.075	J	0.20	0.045	ppb v/v			09/14/17 22:08	1
1,2,4-Trichlorobenzene	0.25	J	0.50	0.19	ppb v/v			09/14/17 22:08	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			09/14/17 22:08	1
Naphthalene	0.11	J	0.50	0.10	ppb v/v			09/14/17 22:08	1
1,2,3-Trichloropropane	1.3		0.50	0.087	ppb v/v			09/14/17 22:08	1
Alpha Methyl Styrene	0.20	U	0.20	0.062	ppb v/v			09/14/17 22:08	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.51	U	0.51	0.046	ug/m ³			09/14/17 22:08	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m ³			09/14/17 22:08	1
Dichlorodifluoromethane	2.7		2.5	0.23	ug/m ³			09/14/17 22:08	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m ³			09/14/17 22:08	1
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m ³			09/14/17 22:08	1
Freon-114	1.4	U	1.4	0.29	ug/m ³			09/14/17 22:08	1
Chloromethane	1.5		1.0	0.33	ug/m ³			09/14/17 22:08	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m ³			09/14/17 22:08	1
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m ³			09/14/17 22:08	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m ³			09/14/17 22:08	1
Bromomethane	0.25	J	0.78	0.14	ug/m ³			09/14/17 22:08	1
Chloroethane	1.3	U	1.3	0.34	ug/m ³			09/14/17 22:08	1
Trichloroethene	0.32	J	1.1	0.049	ug/m ³			09/14/17 22:08	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m ³			09/14/17 22:08	1
Trichlorofluoromethane	1.4		1.1	0.17	ug/m ³			09/14/17 22:08	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m ³			09/14/17 22:08	1
Freon 113	0.59	J	1.5	0.21	ug/m ³			09/14/17 22:08	1
Tetrachloroethene	1.5		1.4	0.066	ug/m ³			09/14/17 22:08	1
Acetone	13		12	3.1	ug/m ³			09/14/17 22:08	1
Carbon disulfide	0.37	J	1.6	0.087	ug/m ³			09/14/17 22:08	1
Allyl chloride	1.6	U	1.6	0.20	ug/m ³			09/14/17 22:08	1
Dichloromethane	0.46	J	1.7	0.24	ug/m ³			09/14/17 22:08	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m ³			09/14/17 22:08	1
Vinyl acetate	18	U	18	7.0	ug/m ³			09/14/17 22:08	1
2-Butanone (MEK)	1.4	J	1.5	0.32	ug/m ³			09/14/17 22:08	1
Chloroform	0.17	J	0.98	0.12	ug/m ³			09/14/17 22:08	1
Carbon tetrachloride	0.46	J	1.3	0.069	ug/m ³			09/14/17 22:08	1
Benzene	1.6		0.64	0.089	ug/m ³			09/14/17 22:08	1
n-Heptane	0.52	J	0.82	0.28	ug/m ³			09/14/17 22:08	1
Methyl methacrylate	2.0	U	2.0	0.45	ug/m ³			09/14/17 22:08	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m ³			09/14/17 22:08	1
1,4-Dioxane	18	U	18	2.7	ug/m ³			09/14/17 22:08	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m ³			09/14/17 22:08	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m ³			09/14/17 22:08	1
Methyl isobutyl ketone	2.0		2.0	0.27	ug/m ³			09/14/17 22:08	1
Toluene	1.7		0.75	0.13	ug/m ³			09/14/17 22:08	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m ³			09/14/17 22:08	1

TestAmerica Burlington

Client Sample Results

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Client Sample ID: BE009

Date Collected: 09/08/17 11:16

Date Received: 09/12/17 10:25

Sample Container: Summa Canister 6L

Lab Sample ID: 200-40017-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.35	ug/m3			09/14/17 22:08	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m3			09/14/17 22:08	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m3			09/14/17 22:08	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m3			09/14/17 22:08	1
Ethylbenzene	2.0		0.87	0.15	ug/m3			09/14/17 22:08	1
m,p-Xylene	6.6		2.2	0.33	ug/m3			09/14/17 22:08	1
Xylene, o-	2.4		0.87	0.17	ug/m3			09/14/17 22:08	1
Styrene	0.85	U	0.85	0.15	ug/m3			09/14/17 22:08	1
Bromoform	2.1	U	2.1	0.36	ug/m3			09/14/17 22:08	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m3			09/14/17 22:08	1
1,3,5-Trimethylbenzene	0.20	J	0.98	0.20	ug/m3			09/14/17 22:08	1
1,2,4-Trimethylbenzene	0.45	J	0.98	0.28	ug/m3			09/14/17 22:08	1
1,3-Dichlorobenzene	0.77	J	1.2	0.30	ug/m3			09/14/17 22:08	1
1,4-Dichlorobenzene	0.78	J	1.2	0.38	ug/m3			09/14/17 22:08	1
Benzyl chloride	1.0	U	1.0	0.35	ug/m3			09/14/17 22:08	1
1,2-Dichlorobenzene	0.45	J	1.2	0.27	ug/m3			09/14/17 22:08	1
1,2,4-Trichlorobenzene	1.9	J	3.7	1.4	ug/m3			09/14/17 22:08	1
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m3			09/14/17 22:08	1
Naphthalene	0.56	J	2.6	0.52	ug/m3			09/14/17 22:08	1
1,2,3-Trichloropropane	8.0		3.0	0.52	ug/m3			09/14/17 22:08	1
Alpha Methyl Styrene	0.97	U	0.97	0.30	ug/m3			09/14/17 22:08	1

Default Detection Limits

Client: U.S. Environmental Protection Agency
 Project/Site: Case 17-0014

TestAmerica Job ID: 200-40017-1
 SDG: BE002

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.20	0.026	ppb v/v	TO-15
1,1,1-Trichloroethane	1.1	0.14	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	0.20	0.026	ppb v/v	TO-15
1,1,2,2-Tetrachloroethane	1.4	0.18	ug/m3	TO-15
1,1,2-Trichloroethane	0.20	0.017	ppb v/v	TO-15
1,1,2-Trichloroethane	1.1	0.093	ug/m3	TO-15
1,1-Dichloroethane	0.20	0.017	ppb v/v	TO-15
1,1-Dichloroethane	0.81	0.069	ug/m3	TO-15
1,1-Dichloroethene	0.20	0.035	ppb v/v	TO-15
1,1-Dichloroethene	0.79	0.14	ug/m3	TO-15
1,2,3-Trichloropropane	0.50	0.087	ppb v/v	TO-15
1,2,3-Trichloropropane	3.0	0.52	ug/m3	TO-15
1,2,4-Trichlorobenzene	0.50	0.19	ppb v/v	TO-15
1,2,4-Trichlorobenzene	3.7	1.4	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.20	0.057	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.28	ug/m3	TO-15
1,2-Dibromoethane	0.20	0.023	ppb v/v	TO-15
1,2-Dibromoethane	1.5	0.18	ug/m3	TO-15
1,2-Dichlorobenzene	0.20	0.045	ppb v/v	TO-15
1,2-Dichlorobenzene	1.2	0.27	ug/m3	TO-15
1,2-Dichloroethane	0.20	0.034	ppb v/v	TO-15
1,2-Dichloroethane	0.81	0.14	ug/m3	TO-15
1,2-Dichloropropane	0.20	0.035	ppb v/v	TO-15
1,2-Dichloropropane	0.92	0.16	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.040	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.20	ug/m3	TO-15
1,3-Dichlorobenzene	0.20	0.050	ppb v/v	TO-15
1,3-Dichlorobenzene	1.2	0.30	ug/m3	TO-15
1,4-Dichlorobenzene	0.20	0.063	ppb v/v	TO-15
1,4-Dichlorobenzene	1.2	0.38	ug/m3	TO-15
1,4-Dioxane	5.0	0.76	ppb v/v	TO-15
1,4-Dioxane	18	2.7	ug/m3	TO-15
2-Butanone (MEK)	0.50	0.11	ppb v/v	TO-15
2-Butanone (MEK)	1.5	0.32	ug/m3	TO-15
4-Ethyltoluene	0.20	0.040	ppb v/v	TO-15
4-Ethyltoluene	0.98	0.20	ug/m3	TO-15
Acetone	5.0	1.3	ppb v/v	TO-15
Acetone	12	3.1	ug/m3	TO-15
Allyl chloride	0.50	0.063	ppb v/v	TO-15
Allyl chloride	1.6	0.20	ug/m3	TO-15
Alpha Methyl Styrene	0.20	0.062	ppb v/v	TO-15
Alpha Methyl Styrene	0.97	0.30	ug/m3	TO-15
Benzene	0.20	0.028	ppb v/v	TO-15
Benzene	0.64	0.089	ug/m3	TO-15
Benzyl chloride	0.20	0.067	ppb v/v	TO-15
Benzyl chloride	1.0	0.35	ug/m3	TO-15
Bromodichloromethane	0.20	0.059	ppb v/v	TO-15
Bromodichloromethane	1.3	0.40	ug/m3	TO-15
Bromoform	0.20	0.035	ppb v/v	TO-15
Bromoform	2.1	0.36	ug/m3	TO-15
Bromomethane	0.20	0.036	ppb v/v	TO-15
Bromomethane	0.78	0.14	ug/m3	TO-15